

REMARKS

As examined, Claims 1-23 are pending in the application. Claim 23 has been amended. New claims 24-25 have been added. Claims 1-23 have been rejected. This rejection is respectfully traversed, and reconsideration and allowance of all the pending claims are respectfully requested.

I. Response to § 102(e) Rejection of Claims 1-2, 4, 7-8, 10, 13-14, 16, 18-19: Kwak

“Claims 1, 2, 4, 7, 8, 10, 13, 14, 16, 18, 19 and 21 [are] rejected under 35 U.S.C. 102(e) as being anticipated by Kwak (US 6,862,069 B2).” (Pg. 2, Para. 2 of Office Action). This rejection is respectfully traversed.

Claims 1, 7, and 18, and claim 13 generally recites:

a pixel electrode formed on the first
insulation layer of the display region.

(emphasis added).

Specifically, claim 13 recites as a method step: “forming a pixel electrode on the first insulation layer of the display region” (emphasis added). Kwak fails to teach, suggest or disclose “a pixel electrode formed on the first insulation layer” of the display region as recited by claims 1, 7, 13 and 18.

As can be seen in Fig. 5, Fig. 6, and Fig. 7 of Applicants’ Drawings, the “pixel electrode 103” is formed on the “insulation layer 306.” In direct contrast, Kwak fails to teach, suggest or disclose any “pixel electrode” being formed on the “insulation layer.” On Pg. 2, Para. 2 of the Office Action, the Examiner points to “(col. 5, line 23)” of Kwak in an effort to anticipate the “pixel electrode.” However that portion of Kwak discloses that: “a transparent electrode material is deposited and then patterned to form the pixel electrode.” (Kwak, Col. 5:22-23). Thus, this portion of Kwak shows that Kwak still fails to teach, suggest or disclose a “pixel electrode” being formed on the “first insulation layer” as recited by claims 1, 7, 13 and 18 and as shown by Figs. 5-7 of Applicants’ Drawings.

Claims 1, 7 and 18 also recite and claim 13 generally recites:

a first insulation layer formed over the transparent substrate, the first insulation layer having an opening window in the sealine region.

(Emphasis added).

Specifically, Claim 13 recites as a method step: “removing a portion of the first insulation layer to form an opening window in the sealine region” (emphasis added). Kwak fails to teach, suggest or disclose the above recited limitation of claims 1, 7, 8 and 13. As can be seen in at least FIG. 7 and FIG. 8 of Kwak, the “gate insulating film 22” does not have an opening window in the “seal part 12”, and the openings in the “gate insulating film 22” only extend towards the “gate pad 14” region and “gate link 15” region. However, in at least Figs. 2, 3, 4, 5, 6 and 7 of Applicants’ Drawings, the “gate insulation layer 306” clearly has “opening windows 301” in the sealine region (SLR). Thus, claims 1, 7, 13 and 18 are further allowable over Kwak for at least this additional reason.

Therefore, Applicants respectfully request the withdrawal of the § 102(e) rejection because claim 1 (and dependent claims 2 & 4), claim 7 (and dependent claims 8 & 10), claim 13 (and dependent claims 14 & 16), and claim 18 (and dependent claims 19 & 21) are all allowable and patentable over Kwak.

II. Response to § 103(a) Rejection of Claims 3, 5, 6, 9, 11-12, 15, 17, 20, 22-23: Kwak

“Claims 3, 5, 6, 9, 11, 12, 15, 17, 20, 22 and 23 [are] rejected under 35 U.S.C. 103(a) as being unpatentable over Kwak.” (Pg. 3, Para. 7 of Office Action). This rejection is respectfully traversed.

For the same reasons as provided above, Kwak fails to suggest or disclose a “pixel electrode” formed on the “first insulation layer” and Kwak also fails to suggest or disclose a “first insulation layer having an opening window in the sealine region”.

Thus, Applicants respectfully request the withdrawal of the §103(a) rejection because claims 3, 5, 6 and 23 (all dependent on claim 1); 9, 11 and 12 (all dependent on claim 7); 15 and 17 (all dependent on claim 13); and 20 and 22 (all dependent on claim 17), are all allowable and patentable over Kwak.

III. New Claims 24-25

The limitations disclosed by claims 24 and 25 are: "wherein the opening window comprises at least one intermediate portion" (claim 24) and "wherein the at least one intermediate portion comprises the first insulation layer and the second insulation layer" (claim 25). Support for these new claims can be found in at least Figs. 5, 6 and 7 of Applicants' Drawings and at least Paragraphs [10], [20], [39] and [40]-[42]. Kwak fails to teach, suggest or disclose the limitations recited by claims 24 and 25. Therefore, new claims 24 and 25 are allowable over Kwak.

CONCLUSION

In light of the foregoing, Applicants respectfully request that the rejections be withdrawn and that claims 1-25 be allowed. Should any other action be contemplated by the Examiner, please contact the undersigned at (408) 392-9250.

Respectfully submitted,

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